RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/715,729

Source: ~~two~~

Date Processed by STIC: 10-18-04

ENTERED

IFWO

RAW SEQUENCE LISTING   DATE: 10/18/2004
PATENT APPLICATION: **US/10/715,729**   TIME: 13:58:25

Input Set : **A:\IDX 1022 US.ST25.txt**
Output Set: **N:\CRF4\10182004\J715729.raw**

```
 3 <110> APPLICANT: Idenix Pharmaceuticals, Inc.
 4       Universita Degli Studi de Cagliari
 5       Standring, D.
 6       Sommadossi, J.P.
 7       La Colla, P.
 8       Bichko, V.
 9       Qu, L.
11 <120> TITLE OF INVENTION: 2'-BRANCHED NUCLEOSIDES AND FLAVIVIRIDAE MUTATION
13 <130> FILE REFERENCE: IDX 1022 US
15 <140> CURRENT APPLICATION NUMBER: 10/715,729
16 <141> CURRENT FILING DATE: 2003-11-17
18 <150> PRIOR APPLICATION NUMBER: US 60/426,675
19 <151> PRIOR FILING DATE: 2002-11-15
21 <160> NUMBER OF SEQ ID NOS: 77
23 <170> SOFTWARE: PatentIn version 3.2
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 61
27 <212> TYPE: DNA
28 <213> ORGANISM: Pestivirus sp.
30 <400> SEQUENCE: 1
31 aagtatatat aagaaatggg cagagaggga ccggccagcc agacacaagt gctggcaaca      60
33 g                                                                      61
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 32
38 <212> TYPE: DNA
39 <213> ORGANISM: Pestivirus sp.
41 <400> SEQUENCE: 2
42 aagtatatat aagaaatggg cagagaggga cc                                    32
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 32
47 <212> TYPE: DNA
48 <213> ORGANISM: Pestivirus sp.
50 <400> SEQUENCE: 3
51 agtatatata agaaatgggc agagagggac cg                                    32
54 <210> SEQ ID NO: 4
55 <211> LENGTH: 32
56 <212> TYPE: DNA
57 <213> ORGANISM: Pestivirus sp.
59 <400> SEQUENCE: 4
60 gtatatataa gaaatgggca gagagggacc gg                                    32
63 <210> SEQ ID NO: 5
64 <211> LENGTH: 32
65 <212> TYPE: DNA
```

RAW SEQUENCE LISTING   DATE: 10/18/2004
PATENT APPLICATION: US/10/715,729   TIME: 13:58:25

Input Set : A:\IDX 1022 US.ST25.txt
Output Set: N:\CRF4\10182004\J715729.raw

66 <213> ORGANISM: Pestivirus sp.
68 <400> SEQUENCE: 5
69 tatatataag aaatgggcag agagggaccg gc   32
72 <210> SEQ ID NO: 6
73 <211> LENGTH: 32
74 <212> TYPE: DNA
75 <213> ORGANISM: Pestivirus sp.
77 <400> SEQUENCE: 6
78 atatataaga aatgggcaga gagggaccgg cc   32
81 <210> SEQ ID NO: 7
82 <211> LENGTH: 32
83 <212> TYPE: DNA
84 <213> ORGANISM: Pestivirus sp.
86 <400> SEQUENCE: 7
87 tatataagaa atgggcagag agggaccggc ca   32
90 <210> SEQ ID NO: 8
91 <211> LENGTH: 32
92 <212> TYPE: DNA
93 <213> ORGANISM: Pestivirus sp.
95 <400> SEQUENCE: 8
96 atataagaaa tgggcagaga gggaccggcc ag   32
99 <210> SEQ ID NO: 9
100 <211> LENGTH: 32
101 <212> TYPE: DNA
102 <213> ORGANISM: Pestivirus sp.
104 <400> SEQUENCE: 9
105 atataagaaa tgggcagaga gggaccggcc ag   32
108 <210> SEQ ID NO: 10
109 <211> LENGTH: 32
110 <212> TYPE: DNA
111 <213> ORGANISM: Pestivirus sp.
113 <400> SEQUENCE: 10
114 ataagaaatg ggcagagagg gaccggccag cc   32
117 <210> SEQ ID NO: 11
118 <211> LENGTH: 32
119 <212> TYPE: DNA
120 <213> ORGANISM: Pestivirus sp.
122 <400> SEQUENCE: 11
123 taagaaatgg gcagagaggg accggccagc ca   32
126 <210> SEQ ID NO: 12
127 <211> LENGTH: 32
128 <212> TYPE: DNA
129 <213> ORGANISM: Pestivirus sp.
131 <400> SEQUENCE: 12
132 aagaaatggg cagagaggga ccggccagcc ag   32
135 <210> SEQ ID NO: 13
136 <211> LENGTH: 32
137 <212> TYPE: DNA
138 <213> ORGANISM: Pestivirus sp.

RAW SEQUENCE LISTING   DATE: 10/18/2004
PATENT APPLICATION: US/10/715,729   TIME: 13:58:25

Input Set : A:\IDX 1022 US.ST25.txt
Output Set: N:\CRF4\10182004\J715729.raw

```
140 <400> SEQUENCE: 13
141 agaaatgggc agagagggac cggccagcca ga                          32
144 <210> SEQ ID NO: 14
145 <211> LENGTH: 32
146 <212> TYPE: DNA
147 <213> ORGANISM: Pestivirus sp.
149 <400> SEQUENCE: 14
150 gaaatgggca gagagggacc ggccagccag ac                          32
153 <210> SEQ ID NO: 15
154 <211> LENGTH: 32
155 <212> TYPE: DNA
156 <213> ORGANISM: Pestivirus sp.
158 <400> SEQUENCE: 15
159 aaatgggcag agagggaccg gccagccaga ca                          32
162 <210> SEQ ID NO: 16
163 <211> LENGTH: 32
164 <212> TYPE: DNA
165 <213> ORGANISM: Pestivirus sp.
167 <400> SEQUENCE: 16
168 aatgggcaga gagggaccgg ccagccagac ac                          32
171 <210> SEQ ID NO: 17
172 <211> LENGTH: 32
173 <212> TYPE: DNA
174 <213> ORGANISM: Pestivirus sp.
176 <400> SEQUENCE: 17
177 atgggcagag agggaccggc cagccagaca ca                          32
180 <210> SEQ ID NO: 18
181 <211> LENGTH: 32
182 <212> TYPE: DNA
183 <213> ORGANISM: Pestivirus sp.
185 <400> SEQUENCE: 18
186 tgggcagaga gggaccggcc agccagacac aa                          32
189 <210> SEQ ID NO: 19
190 <211> LENGTH: 32
191 <212> TYPE: DNA
192 <213> ORGANISM: Pestivirus sp.
194 <400> SEQUENCE: 19
195 gggcagagag ggaccggcca gccagacaca ag                          32
198 <210> SEQ ID NO: 20
199 <211> LENGTH: 32
200 <212> TYPE: DNA
201 <213> ORGANISM: Pestivirus sp.
203 <400> SEQUENCE: 20
204 ggcagagagg gaccggccag ccagacacaa gt                          32
207 <210> SEQ ID NO: 21
208 <211> LENGTH: 32
209 <212> TYPE: DNA
210 <213> ORGANISM: Pestivirus sp.
212 <400> SEQUENCE: 21
```

RAW SEQUENCE LISTING   DATE: 10/18/2004
PATENT APPLICATION: **US/10/715,729**   TIME: 13:58:25

Input Set : **A:\IDX 1022 US.ST25.txt**
Output Set: **N:\CRF4\10182004\J715729.raw**

```
213 gcagagaggg accggccagc cagacacaag tg                        32
216 <210> SEQ ID NO: 22
217 <211> LENGTH: 32
218 <212> TYPE: DNA
219 <213> ORGANISM: Pestivirus sp.
221 <400> SEQUENCE: 22
222 cagagaggga ccggccagcc agacacaagt gc                        32
225 <210> SEQ ID NO: 23
226 <211> LENGTH: 32
227 <212> TYPE: DNA
228 <213> ORGANISM: Pestivirus sp.
230 <400> SEQUENCE: 23
231 agagagggac cggccagcca gacacaagtg ct                        32
234 <210> SEQ ID NO: 24
235 <211> LENGTH: 32
236 <212> TYPE: DNA
237 <213> ORGANISM: Pestivirus sp.
239 <400> SEQUENCE: 24
240 gagagggacc ggccagccag acacaagtgc tg                        32
243 <210> SEQ ID NO: 25
244 <211> LENGTH: 32
245 <212> TYPE: DNA
246 <213> ORGANISM: Pestivirus sp.
248 <400> SEQUENCE: 25
249 agagggaccg gccagccaga cacaagtgct gg                        32
252 <210> SEQ ID NO: 26
253 <211> LENGTH: 32
254 <212> TYPE: DNA
255 <213> ORGANISM: Pestivirus sp.
257 <400> SEQUENCE: 26
258 gagggaccgg ccagccagac acaagtgctg gc                        32
261 <210> SEQ ID NO: 27
262 <211> LENGTH: 32
263 <212> TYPE: DNA
264 <213> ORGANISM: Pestivirus sp.
266 <400> SEQUENCE: 27
267 agggaccggc cagccagaca caagtgctgg ca                        32
270 <210> SEQ ID NO: 28
271 <211> LENGTH: 32
272 <212> TYPE: DNA
273 <213> ORGANISM: Pestivirus sp.
275 <400> SEQUENCE: 28
276 gggaccggcc agccagacac aagtgctggc aa                        32
279 <210> SEQ ID NO: 29
280 <211> LENGTH: 32
281 <212> TYPE: DNA
282 <213> ORGANISM: Pestivirus sp.
284 <400> SEQUENCE: 29
285 ggaccggcca gccagacaca agtgctggca ac                        32
```

RAW SEQUENCE LISTING   DATE: 10/18/2004
PATENT APPLICATION: US/10/715,729   TIME: 13:58:25

Input Set : A:\IDX 1022 US.ST25.txt
Output Set: N:\CRF4\10182004\J715729.raw

```
288 <210> SEQ ID NO: 30
289 <211> LENGTH: 32
290 <212> TYPE: DNA
291 <213> ORGANISM: Pestivirus sp.
293 <400> SEQUENCE: 30
294 gaccggccag ccagacacaa gtgctggcaa ca                             32
297 <210> SEQ ID NO: 31
298 <211> LENGTH: 29
299 <212> TYPE: DNA
300 <213> ORGANISM: Pestivirus sp.
302 <400> SEQUENCE: 31
303 ggccagccag acacaagtgc tggcaacag                                 29
306 <210> SEQ ID NO: 32
307 <211> LENGTH: 61
308 <212> TYPE: DNA
309 <213> ORGANISM: Hepatitis C virus
311 <400> SEQUENCE: 32
312 agaactgcgg ctatcgccgg tgccgcgcga ccggtgtact gacgaccagc tgcggtaata  60
314 c                                                              61
317 <210> SEQ ID NO: 33
318 <211> LENGTH: 32
319 <212> TYPE: DNA
320 <213> ORGANISM: Hepatitis C virus
322 <400> SEQUENCE: 33
323 agaactgcgg ctatcgccgg tgccgcgcga cc                             32
326 <210> SEQ ID NO: 34
327 <211> LENGTH: 32
328 <212> TYPE: DNA
329 <213> ORGANISM: Hepatitis C virus
331 <400> SEQUENCE: 34
332 gaactgcggc tatcgccggt gccgcgcgac cg                             32
335 <210> SEQ ID NO: 35
336 <211> LENGTH: 32
337 <212> TYPE: DNA
338 <213> ORGANISM: Hepatitis C virus
340 <400> SEQUENCE: 35
341 aactgcggct atcgccggtg ccgcgcgacc gg                             32
344 <210> SEQ ID NO: 36
345 <211> LENGTH: 32
346 <212> TYPE: DNA
347 <213> ORGANISM: Hepatitis C virus
349 <400> SEQUENCE: 36
350 actgcggcta tcgccggtgc cgcgcgaccg gt                             32
353 <210> SEQ ID NO: 37
354 <211> LENGTH: 32
355 <212> TYPE: DNA
356 <213> ORGANISM: Hepatitis C virus
358 <400> SEQUENCE: 37
359 ctgcggctat cgccggtgcc gcgcgaccgg tg                             32
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 10/18/2004
PATENT APPLICATION: US/10/715,729   TIME: 13:58:26

      Input Set : A:\IDX 1022 US.ST25.txt
      Output Set: N:\CRF4\10182004\J715729.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:63; Xaa Pos. 1,3,6,7,8

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:63

VERIFICATION SUMMARY
DATE: 10/18/2004
PATENT APPLICATION: US/10/715,729
TIME: 13:58:26

Input Set : A:\IDX 1022 US.ST25.txt
Output Set: N:\CRF4\10182004\J715729.raw

L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0